

**AMENDMENTS TO THE SPECIFICATION:**

Please replace paragraph [0006] with the following amended paragraph:

[0006] In one aspect hereof, the dilution holes are sized such that substantial equal quantities of dilution air flow into the flowpath in the respective zones. In another aspect, the holes are located in the transition piece body in accordance with the hole numbers  $\textcircled{1}$  through  $\textcircled{7}$  and X, Y, Z coordinates set forth in the following Table I, wherein the X, Y, Z coordinates have an origin at the center of the circular inlet to the transition body with the Z coordinates extending from the origin in a downstream flow direction toward the outlet end. The holes lie along the transition piece body in an envelope within one inch in any direction along the surface of the transition piece body from the locations of the holes determined by the X, Y, Z coordinates.

Please replace paragraph [0011] with the following amended paragraph:

[0011] In accordance with an aspect of the present invention, there are provided a plurality of dilution holes 28 in the body 18. The holes are formed in first and second zones 24 and 26, respectively, adjacent the inlet and outlet ends of the body 18. In accordance with a preferred aspect of the present invention, the second zone adjacent the outlet end of the body 18 has a plurality of holes, preferably four holes numbered in drawing Figure 2,  $\textcircled{1}$  through  $\textcircled{4}$ . Drawing holes  $\textcircled{1}$  and  $\textcircled{2}$  are located along the bottom surface of the transition piece body 18 adjacent the outlet end 22, while holes  $\textcircled{3}$  and  $\textcircled{4}$  are located along the opposite upper surface adjacent the outlet 22. The first zone 24 adjacent the inlet end of body 18 includes a plurality of holes, preferably three holes, numbered  $\textcircled{5}$ ,  $\textcircled{6}$ , and  $\textcircled{7}$ , respectively, in Figure 2. Because the inlet end 20 is circular, and the body 18 immediately commences its transition from the circular cross-section at inlet end 20 to a generally rectilinear cross-section at the outlet 22 end, the holes

{5, <6, and >7, are generally symmetrical about a generally circular cross-section near the inlet end 20.

Please replace paragraph [0013] with the following amended paragraph:

[0013] In a preferred embodiment, the size and location of the holes in the transition piece body may be ascertained from Table I below wherein the holes are located in accordance with the hole numbers }1 through >7 and X, Y, Z coordinates set forth in Table I. The X, Y, Z coordinates have an origin 30 (Figure 1) at the center of the circular inlet with the Z coordinate extending from the origin in a downstream flow direction toward the outlet end. The Table I below also gives the hole diameter for each of the numbered holes }1 through >7. It will be appreciated that, while the X, Y, Z coordinates are carried out to three decimal places, the holes may lie along the transition piece body within an envelope of one inch in any direction along the surface of the transition body from the holes locations determined by the X, Y, Z coordinates.

Please replace paragraph [0014] with the following amended paragraph:

[0014] As can be seen from Table I and with reference to drawing Figure 2, zone 26 has holes }1 and {2 of equal diameter. Holes }3 and {4 are equal in diameter to one another but have different diameters than the diameters of holes }1 and {2. The holes }5, <6 and >7 in the first zone 24 adjacent the inlet end 20 all have equal diameters.

Please replace paragraph [0015] with the following amended paragraph:

[0015] The magnitude of the dilution air provided the inlet and outlet ends of the transition piece body is substantially equal. Preferably, the total dilution air flow for effective dilution mixing and efficient emissions reduction for this exemplified embodiment of the transition piece has been found to be about 7.10 square inches. Consequently, the total area of the holes }5, <6 and >7 at the first zone adjacent the inlet end 20 afford a total preferred dilution

area of about 3.55 square inches and, similarly, the holes ~~1~~<sub>1</sub> through ~~3~~<sub>3</sub> adjacent the second zone and outlet end 22 of the transition piece body provide a total preferred dilution area of about 3.55 square inches. Thus, it will be appreciated that the dilution holes machined into the transition piece at the specified axial and circumferential locations aid in dilution mixing and promoting emissions reduction.